

Influence of cyclic heat ...

S/659/61/007/000/001/044
D217/D303

of texturized uranium sheet in the α -phase temperature range, and also of β -brass, in the absence of tensile load causes a shortening of the specimens, and on application of a small external tensile load it leads to a considerable elongation in the direction of the acting force. As a result of cyclic thermal treatment of uranium at a constant load, the residual plastic deformation on passing through the $\alpha \Leftrightarrow \beta$ phase transformation point is greater than deformation as a result of cyclic thermal treatment within the α -region. In $\alpha + \beta$ brass the residual deformation brought about as a result of testing for creep only, considerably exceeds the deformation under the influence of cyclic thermal treatment with a constantly applied load. The change in dimensions of the specimens is in the direction of the action of the externally applied load. The considerable change in the magnitude of residual deformation and even in the sign of deformation as a result of the action of small stresses, applied to the specimen during cyclic thermal treatment, is due, in the authors' view, to the fact that on applying a constant tensile load to a specimen submitted to cyclic thermal treatment, the initial stage of the first period of creep, in which the material exhibits a higher rate of deformation, is repeated; this is also promoted by Card 3/4 X

Influence of cyclic heat ...

S/659/61/007/000/001/044
D217/D303

the great mobility of atoms at points in the thermal cycle during which temperature gradients and stresses exist, and also on passing through the $\alpha \rightleftharpoons \beta$ phase transformation point. There are 12 figures, and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: A.H. Cottrell, Met. Rev., 1, 1956; A.C. Roberts, and A.H. Cottrell, Phil. Mag., 1, 18, 1956; R.W. Nichols, Nuclear eng., 2, 18, 1957.

3 rd 4/4

X

ZAKRZHEVSKIY, Yevgeniy Bronislavovich; ZHULKOVSKIY, V.K., red.;
KHARASH, G.A., tekhn. red.

[Functional diagnosis of diseases of the pancreas] Funktsional'naia diagnostika zabolеваний поджелудочной железы.
Leningrad, Medgiz, 1961. 166 p. (MIRA 15:4)
(PANCREAS—DISEASES)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7

ZHULKOVSKIY, V.K.; PAVULE, A.[translator]; VITOLINS, G., red.; ZAGARS, A.,
tekhn. red.

[Gastritis and ulcer] Gastriti un culas slimība. Riga, Latvijas
valsts izdevniecība, 1961. 76 p. (MIRA 15;3)
(STOMACH—INFLAMATION) (STOMACH—ULCERS)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

IGNATOVICH, Zinsida Aleksandrovna; ZHULKOVSKIY, V.K., red.; SHEVCHENKO,
F.Ya., tekhn.red.

[Food poisoning and its prevention] Pishchevye otравleniya i
ikh preduprezhdenie. Leningrad, Gos.izd-vo med.lit-ry. Leningr.
otd-nie, 1960. 27 p. (MIRA 13:11)
(FOOD POISONING)

ZHULKOVSKIY, Vladimir Konstantinovich; SHCHERBA, M.L., red.; KHARASH,
G.A., tekhn. red.

[Gastritis and peptic ulcer] Gastrity i iaszvennaya bolez'n'.
Leningrad, Medgiz, 1960. 67 p. (MIRA 15:5)
(STOMACH--INFLAMMATION) (PEPTIC ULCER)

SERGEL', Yelena Vladislavovna; ZHULKOVSKIY, V.K., red.; GULYAYEVA,
T.S., tekhn.red.

[Chronic diseases of the joints; infectious arthritis, gout,
chronic deforming polyarthritis] Khronicheskie zabolевания
sustavov; infektsionnye artrity, podagra, khronicheskii deformi-
ruiushchii poliartrit. Leningrad, Gos.izd-vo med.lit-ry. Lenin-
grad. otd-nie, 1958. 12 p.

(MIRA 13:6)

(JOINTS--DISEASES)

ZHULKVA, V.

Barogram that was incorrect. Grashd.av 17 no.3:22
Mr '60. (MIRA 13:6)

1. Komandir letnoy chasti Kuybyshevskogo aeroporta.
(Aeronautical instruments)

ZHULKVA, V.

Air transportation gets essential. Crashd. av. 19 no.11:18
N '62. (MIRA 16:1)

1. Komandir Kazanskogo ob'yedinenmogo aviapodrasdeleniya.

(Aeronautics, Commercial)

ZHULOVYAN, V.V., inzh.; LIIDENGOL'TS, Ya.F., inzh.

Calculation of the frequency characteristics of reactive step-by-step motors. Elektrotekhnika 36 no.1:41-43 Ja '65.

(MIRA 18:3)

KAZANSKIY, V.M., kand. tekhn. nauk, dotsent; ZHULOVYAN, V.V., inzh.

Design of reactive stepping motors. Elektrichestvo no.4:53-56
Ap '65. (MIRA 18:5)

1. Novosibirskiy elektrotekhnicheskiy institut.

L 37082-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(1)/EWP(v)/EWP(t)/ETI IJP(c) JD	
ACC NR: AP6008989	SOURCE CODE: UR/0121/65/000/011/0026/0028
AUTHORS: Rudnev, A. V.; Zhulovyan, V. V.	
ORG: none	
TITLE: Residual stresses during intermittent machining of heat resistant alloy KhN35VTYu using a cutting tool with moving cutting edge	
SOURCE: Stanki i instrument, no. 11, 1965, 26-28	
TOPIC TAGS: residual stress, metal cutting, cutting tool/ KhN35VTYu heat resistant alloy	
ABSTRACT: A lathe cutting tool (VNII design) with a rotatable cup-like cutting edge has been found to increase cutting speed of heat-resistant alloys by factors of 2-3. The cutting tool and the effects of cutting edge rotation are briefly described ($\gamma_3 = 27^\circ$, $\alpha_3 = 0^\circ$, cup diameter 18 mm, cup height 10 mm). Using this tool, the residual stresses during machining of alloy KhN35VTYu were measured on a specially designed apparatus by B. A. Kravchenko (Sily, ostatochnyye napryazheniya i treniye pri rezaniyi metallov. Kuybyshevskoye izd-vo, 1962) using the equations derived by M. A. Babichev (Metody opredeleniya vnutrennikh napryazheniy v detalakh mashin. M., Izd-vo AN SSSR, 1955) and compared with stresses left by normal prismatic tools under the same conditions. Two sample curves (under different cutting conditions) are presented.	
Card 1/2	UDC: 669.14.018.44:621.941.1

L 37082-66

ACC NR: AP6008989

It was found that the maximum values of the residual tensile stresses were reduced by 20--40% and the depth of the residual stresses was reduced by a factor of 1.5--3 as compared with normal tool stresses (at $v = 8-10 \text{ m/min}$, $s = 0.21-0.6 \text{ mm/rev}$ and $t = 0.5-1.0 \text{ mm}$). Orig. art. has: 3 formulas and 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 004

JCA
Card 2/2

ANGELOV, G., prof.; ZHULTOV, Al., inzh.

Examining some Bulgarian standard V-belts. Mashinostroenie 12
no.3:32-35 Mr'63

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7

ZHULTOV, Al., inzh.; TOSHEV, V., inzh.

Narrow V-belts. Mashinostroenie 10 no.10:12-14 0 '61.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

TORZANOV, P. V.; ZHURAVLEV, A. N.

Computation of two-stage coaxial reducers by dividing the gear ratio. Godishnik mash elektr 11 no. 3379-24 "63 [publ. '63]

ZHULTOVSKIY, Z.

Biological warfare; the threat and the reality, by T. Rozanovskiy and Z. Zhultovskiy. New York, USJPRS, 1960.

477 p. (JPRS: 5229)

Translated from the Russian: Biologicheskaya voina, ugroza i deystvitel'nost, Moscow, 1959.

Original Polish title: Wojna Biologiczna, próba a rzeczywistość, Warsaw, 1957.

Bibliography: p. 473-477.

ZABOLOTSKIY, T.V., kand. khim. nauk, otv. red.[deceased];
ZHULYABIN, A.I., red.

[Hardening of lime-clay mixes and slurry waste products]
Tverdenie izvestkovo-glinianykh smesei i shlemovykh ot-
khodov. Novosibirsk, Red.-izd. otdel Sibirsogo otd-niya
AN SSSR, 1964. 113 p. (MIRA 18:3)

1. Novosibirsk. Khimko-metallurgicheskiy institut.

KITAYNIK, A.U.; LARIONOV, N.N., zhurnalyst; BRATCHIKOV, B., zhurnalyst;
LYKOV, V., zhurnalyst; VOLKOV, Ye., zhurnalyst; VOSKRESENSKIY, N.,
zhurnalyst; GERVASH, A., zhurnalyst; GORDIN, A., zhurnalyst;
GILENKO, A., zhurnalyst; DASHKOV, S., zhurnalyst; DROBOTUSHENKO, A.,
zhurnalyst; YERSHOV, N., zhurnalyst; ZHUYABIN, A., zhurnalyst;
KRASNOV, I., zhurnalyst; IUCHINETSKIY, Ye., zhurnalyst; LYKOV, M.,
zhurnalyst; MEYSAK, N., zhurnalyst; PADERIN, G., zhurnalyst; PAL'M, A.,
zhurnalyst; PONOMAREV, P., zhurnalyst; RUBINA, M., zhurnalyst; TAGIROV, T.,
zhurnalyst; TIMOFEEV, B., zhurnalyst; YANSHIN, V., zhurnalyst;
TRUBITSIN, N.A., ctv.red.; OMBYSH-KUZNETSOV, S., red.izd-va; TOBUKH, A.,
tekhn.red.

[Novosibirsk; a collection] Novosibirsk; sbornik. Novosibirske knizh-
noe izd-vo, 1961. 180 p. (MIRA 15:5)

(Novosibirsk--History) (Novosibirsk--Description)

ZHULYABIN, I.

Trade union group organizer of communist labor section. Sov. profsoiuzy
16 no.21:51-53 N '60. (MIRA 13:10)

1. Predsedatel' komiteta profsoyuza Ryazanskogo zavoda schetno-analiticheskikh mashin.
(Ryazan—Calculating machines)
(Trade unions)

ACCESSION NR: AP4044249

S/0128/64/000/008/0041/0042

AUTHOR: Fiksen, N. V., Babaskin, Yu. Z., Zhuiyayev, A. F., Shapovalenko, V. G.
Turovskiy, V. P.TITLE: Manufacture of Kh18N9TL steel in an induction furnace by remelting with
oxygen

SOURCE: Liteynoye proizvodstvo, no. 8, 1964, 41-42

TOPIC TAGS: steel manufacture, induction furnace, Kh18N9TL steel, steel smelting,
oxygen remelting, decarbonization, blast furnace, tuyere blowing

ABSTRACT: The technique of blowing oxygen into the metal, the oxygen pressure, and the composition and temperature of the metal as factors in decarbonization and chromium burn-up were investigated in an attempt to develop an optimum technology for manufacturing low-titanium, high-quality Kh18N9TL stainless steel (with a carbon content not above 0.06%) from the plant's steel wastes and rolled scrap by remelting in a 250-kg oxygen-blast induction furnace. By varying the proportion of stainless steel wastes and high-carbon scrap in the material from 0 to 100% and the pre-blowing temperature from 1580 to 1660°C, with a post-blowing temperature of 1800°C, an efficient technique was developed in which the pre-blowing charge contains 47% of carbon steel scrap, to which 27% of

Card 1/2

ACCESSION NR: AP4044249

stainless steel wastes (with respect to the melt weight) is added after blowing. Both of the two tested blast procedures - tuyere blowing and blowing through a submerged pipe were found to be effective, the latter being more economical. Remelting with oxygen gives a better product than remelting without oxygen. Orig. art. has: 1 table.

ASSOCIATION: Donetskiy zavod sel'skokhozyaystvennogo mashinostroyeniya (Donets Agricultural Machinery Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF Sov: 004

OTHER: 000

Card 2/2

ZHUL'YNGO, P.P., vrach

Syringe with continuous action for local anesthesia. Zdrav.
Kazakh. 17 no.2:34-35 '57. (MIRA 12:6)

1. Iz kliniki fakul'tetskoy khirurgii pediatricheskogo fakul'-
teta Kazakhskogo gosudarstvennogo meditsinskogo instituta im.
V.M.Molotova.

(SYRINGES) (LOCAL ANESTHESIA)

ZHUMABEKOV, L.

Solvability of a problem for a parabolic system with discontinuous
coefficients. Izv. AN Kazakh. SSR. Ser. fiz.-mat. nauk 3 no.1:30-38
Ja-Ap '65. (MIRA 13:5)

ZHUMABEKOV, L.Zh.

A problem involving heat and mass transfer. Inzh.-fiz. zhur. 8
no.3:386-392 Mr '65. (MIRA 18:5)

1. Kazakhskiy tekhnologicheskiy institut, Chimkent.

SHCHERBAK, G.S.; PLYASKIN, I.I.; ZHUMAGALIYEV, A.K.

Use of a drilling and shearing machine to work ore deposits.
Trudy Inst.gor.dela AN Kazakh.SSR 9:135-146 '62. (MIRA 15:8)
(Boring machinery)

ZHUMAGULOV, O.B.

A simple filter. Elek. i tepl. tsiaga 4 no. 9:21 S 160.
(MIRA 13:12)

1. Glavnnyy inzhener depo Aktyubinsk Kazakhskoy dorogi.
(Diesel engines--Fuel systems)

ZHUMAGALIYEV, I.S.,kapitan

Pilot, follow my orders! Vest.Vozd.F1. no.9:32-36 8'60.(MIRA 13:10)
(Ground controlled approach)

KALININA, T.D., kand.tekhn.nauk; ZHUMAKHANOVA, T.B., inzh.

Using perforated dippers in underwater excavation of sand and gravel.
Stroi. mat. 6 no.11;7-9 N '60.

(MIRA 13:11)

(Moscow region--Sand and gravel plants)
(Excavating machinery)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7

VLADIMIROV, A.P., kand.tekhn.nauk; ZHUMAKHANOVA, T.P., inzh.

Transporting rock products in winter time. Stroi.mat. 9 no.12:21-
24 D '63. (MIRA 17:3)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

VLADIMIROV, A.P., kand. tekhn. nauk; SAMUSEV, V.P., inzh.; ZHUMAKHANOVA,
T.P., inzh.

Investigating new methods of preventing the adhesion of
clay to the conveying containers at the Kudinovskiy open
pit. Sbor. trud. NIIZHelezobetona no.8:131-145 '63

(MIRA 18:1)

ZHUMAKHANOVA, T.P., mladshiy nauchnyy sotrudnik; MILYUKOVA, I.V., mladshiy
nauchnyy sotrudnik

Separation of the oversize with a falling load. Sbor. trud.
NIIZHelezobetona no.3:108-117 '60. (MIRA 15:2)
(Stone, Crushed) (Sand and gravel industry)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7

Master of Technical Sciences

"A Powerful Means of Improving Quality and Reducing Cost of Goods", Pravda, June 3
Current Digest of the Soviet Press, Vol. 2 No. 23, 1950, page 47. (In CIA Library)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

ZHOMAKHOV, I.

Writes about the spiral pumps manufactured at the MOSKVA plant in. KALININ; the coal industry continues to use obsolete pumps

Soviet Source: N: PRAVDA, No. 17; MOSKVA; 17, Jan, 49

Abstracted in USAF "Treasure Island" on file in Library of Congress, Air Information Division, Report No. 99073

KHOKHLOVKIN, D.M.; ZHUMAKHOV, I.M., otvetstvennyy redaktor; NAEINSKAYA, A.A., tekhnicheskiy redaktor; ANDREEV, G.G., tekhnicheskiy redaktor

[Deep-well pumps for lowering water levels and for water supply]
Glubinnye nasydy dlia vodoponizheniya i vodosnabzheniya. Izd. 2-e,
perer. Moskva, Ugletekhizdat, 1954. 410 p. (MLRA 8:4)
(Pumping machinery)

14(1)

PHASE I BOOK EXPLOITATION

SOV/1786

Zhumakhov, Ivan Mikhaylovich, Candidate of Technical Sciences, Docent
Nasosy, ventilyatory i kompressory (Pumps, Fans, and Compressors)
[Leningrad] Ugletekhizdat, 1958. 598 p. Errata slip inserted.
15,000 copies printed.

Ed.: M. A. Matveyev; Ed. of Publishing House: A. V. Shorokhova;
Tech. Ed.: G. M. Il'inskaya.

PURPOSE: This is a textbook on pumps, fans, and compressors for
students of mining vtuzes specializing in mining machinery and
may also be useful to students specializing in electrical engineer-
ing as applied to mining. Engineering and technical personnel
designing mining machinery may also find the book useful.

COVERAGE: The author covers the basic theory of pumps, fans, and
compressors and presents methods for designing and constructing
their working elements. Various types of Soviet and foreign
pumps and fans are described, and principles for automatization

Card 1/13

Pumps, Fans, and Compressors

SOV/1786

of the control of mine drainage, ventilation, and compressor installation are presented. The vortex theory is discussed in detail, and the elements of vane grid theory are presented on which the methods of designing axial-flow-type mine fans are based. Dimensionless profile characteristics simplifying the design of centrifugal pumps are introduced for the first time. A special chapter deals with basic trends and future prospects for development of mining turbomachinery. All basic methods of designing pumps, fans, and compressors are illustrated by numerical examples given in appendixes. The book is based chiefly on lecture materials used by the author in teaching the course "Pumps, Fans, and Compressors" at the Moskovskiy gornyy institut imeni I.V. Stalina (Moscow Mining Institute imeni I.V. Stalin). The author thanks Academician G.F. Proskura for reviewing the book. He also thanks instructors of the Department of Mining Engineering of the Khar'kovskiy gornyy institut (Khar'kov Mining Institute) for their comments. There are 69 references, 56 of which are Soviet, 11 English, and 2 German.

Card 2/13

KHOKHLOVSKIN, David Mikhaylovich; ZHUMAKHOV, I.M., red.; VINOKUROVA, Ye.B.,
red.izd-va; LELYUKHIN, A.A., tekhn.red.

[Deep well pumps with submersible electric motors] Glubinnye nasosy
s pogruzhnymi elektrodvigateliами. Moakva, Izd-vo M-va kommun.khoz.
RSFSR, 1959. 72 p.
(Oil well pumps) (MIRA 13:2)

ZHUMAKHOV, I.M., kandidat tekhnicheskikh nauk [reviewer]; VORONIN, V.N., doktor tekhnicheskikh nauk [author].

Remarks on Doctor of Technical Sciences V.N.Voronin's book "Mine ventilating installations." I.M.Zhumakov. Ugol' 28 no.12:45 D '53. (MLRA 6:11) (Mine ventilation) (Voronin, V.N.)

ZHUMAKHOV, I.M., dotsent.

Ways of improving stationary pumps and main ventilation fans for
the mining industry. Gor.zhur. no.2:39-45 F '56. (MLRA 9:5)

1. Moskovskiy gornyy institut imeni I.V. Stalina.
(Mine ventilation)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7

91.

MADE X-65 TYPE 100 EXPLODING FISH

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

Zhumakhov, I.M.

IVANTSOV, V.V., gornyy inzhener-elektromekhanik; KHANOV, F.F., starshiy nauchnyy sotrudnik; BABAK, G.A., mladshiy nauchnyy sotrudnik; KOLYSHKIN, O.M., aspirant; IVANOV, G.V., kandidat tekhnicheskikh nauk; ZHUMAKHOV, I.M., dotsent.

Ways of improving pumping installations and main ventilation fans for the mining industry; discussion of I.M. Zhumakhov's article.
Gor. zhur. no. 12:36-40 D '56. (MLRA 10:1)

1. Unipromed (for Ivantsov). 2. Vsesoyuznyy ugol'nyy institut (for Khanov and Kolyshkin) 3. Institut gornogo dela Akademii nauk USSR (for Babak) 4. Molotovskiy gornyy institut (for Ivanov) 5. Moskovskiy gornyy institut (for Zhumakhov).

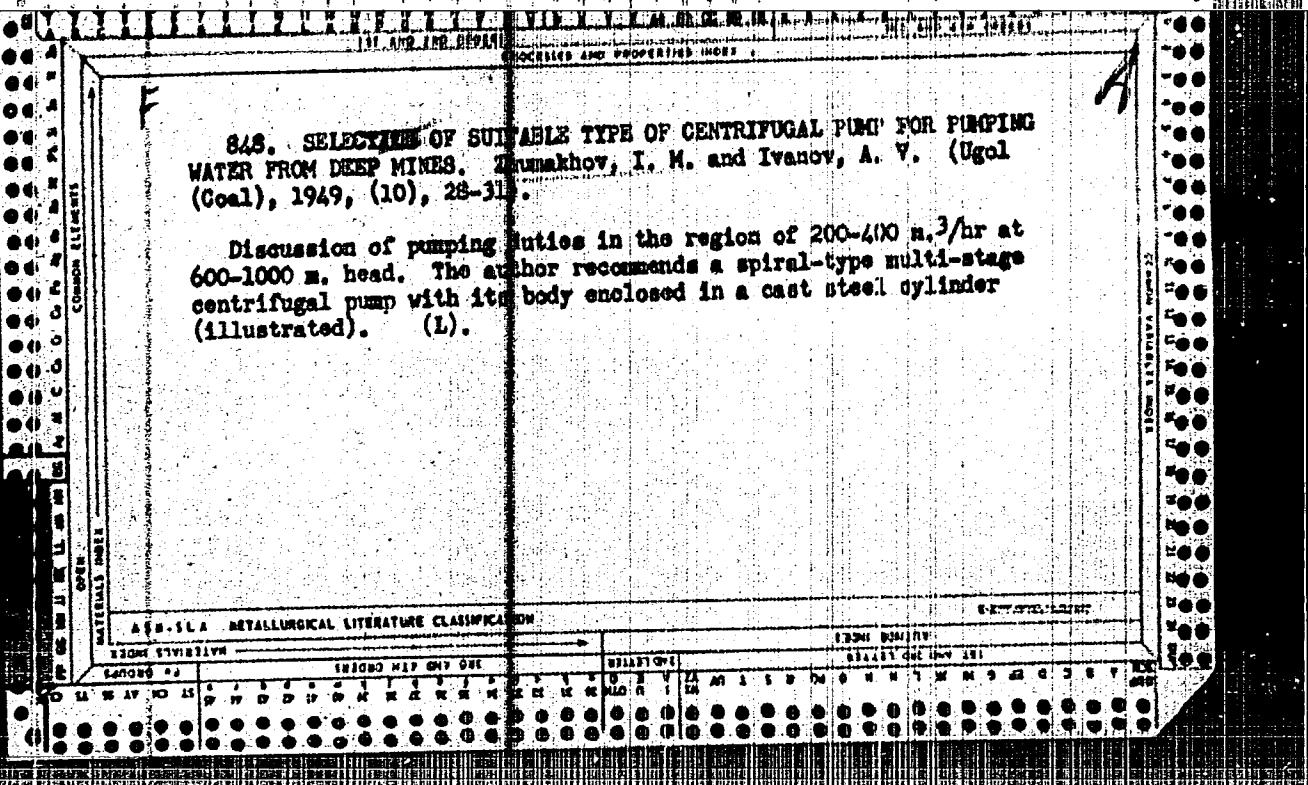
(Mine pumps) (Mine ventilation)

ZHUMAKHOV, I.M., dotsent, kand.tekhn.nauk, otd.red.; SILINA, L.A.,
red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Strength and wear of mining equipment; transactions of the
Scientific-Technological Conference on the Strength and Wear
of Mining Equipment] Prochnost' i iznos gornogo oborudovaniia;
trudy Nauchno-tekhnicheskoi konferentsii po prochnosti i iznosu
gornogo oborudovaniia. Pod red. I.M.Zhumakova, 1959. 627 p.
(MIRA 12:12)

1. Nauchno-tekhnicheskoye gornoye obshchestvo, Moscow.
(Mining machinery) (Mechanical wear)

1. ZHUMAKHOV, I. M.
2. SSSR.(600)
4. Mining Engineering-History
7. "Notes on the history of Soviet mining engineering." A. A. Zvorykin.
Reviewed by I. M. Zhumakhov.
Izv. AN SSSR, Otd. tekhn. nauk No. 9, 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.



F.A.

58. MINE VENTILATION BLOWERS (SHALINTNYE VENTILYATORY). Zhuravkov,
I.M. (Leningrad: Ugletekhnizdat, 1951, 224 pp., 11.90 rbls; abstr.
in Gornyi Zh. (Min. J.), Apr. 1952, 40). Problems of ventilation
and of blower construction for coal and ore mines are discussed.

ZHUMAKHOV, Ivan Mikhaylovich; MATVEYEV, M.A., otv.red.; SHIROKHOVA, A.V.,
red.izd-va, IL'INSKAYA, G.M., tekhn.red.

[Pumps, fans, and compressors] Nasosy, ventilatory i kompressory.
Ubletekhsdat, 1958. 598 p. (MIRA 12:2)
(Pumping machinery) (Fans, Mechanical) (Compressors)

ACCESSION NR: AR4027942

S/0137/64/000/002/I042/I042

SOURCE: RZh. Metallurgiya, Abs. 2I235

AUTHOR: Zhumaliyev, B.

TITLE: Study of the fine structure and microhardness of a plastically deformed single crystal of aluminum

CITED SOURCE: Tr. Kazakhsk. politekhn. in-ta, sb. 23, 1983, 242-247

TOPIC TAGS: aluminum single crystal, aluminum crystal microhardness, aluminum single crystal dislocation

TRANSLATION: The change in the fine structure of Al single crystals (99.999% pure) was studied as a function of the degree of plastic deformation. The x-ray investigation of the samples was always made at the same point of the sample after each stage of deformation in a URS-70 device by means of a specially built Laue camera. A BSV-4 tube with a Cu anode was used. It was found that as the degree of plastic deformation increases, there occurs a change in the form and intensity of the interference spots: the latter break up into separate parts, indicating a refinement of structure. The change in microhardness was studied as a function of the degree of

Card 1/2

ACCESSION NR: AR4027942

plastic deformation. Single dislocation-free Al crystals in the form of whiskers 5 to 8 mm long and 5 to 7 μ in diameter were used as the standard. The microhardness drops sharply during the initial stage of plastic deformation as a result of the formation of dislocations. As the deformation increases further, the microhardness rises to saturation. The rise in microhardness is due to the hardening caused by an increase in the density of dislocations. V. Ivanova

DATE ACQ: 19Mar64

SUB CODE: PH, ML

ENCL: 00

Card 2/2

L 40085-66 EWT(d)/EWT(m)/EWP(w)/EWP(y)/EWP(k) LIP(c) NW/EM/GD
ACC NR: AT6019248 SOURCE CODE: UR/0000/65/000/000/0210/0213

AUTHOR: Zhumaliyev, B.

ORG: none

TITLE: On a computation method for shells,

SOURCE: Kazakhstanskaya mezhvuzovskaya nauchnaya konferentsiya po matematike i mekhanike. 1st, Alma-Ata, 1963. Trudy, Izd-vo Nauka KazSSR, 1965, 210-213

TOPIC TAGS: shell theory, ordinary differential equation, approximate solution

ABSTRACT: A method for the approximate solution of the statistically undefined system of equations for a shell under stress is proposed. If approximate values of the components of the tangential forces are known, then the full stressed state, characterized by the exact values of the force components and moments, may be determined. An iteration method is used, the zero approximations of which are used for the given approximate values. Orig. art. has: 12 formulas.

SUB CODE: 12,13 SUBM DATE: 18Nov65/ ORIG REF: 006/ OTH REF: 001

Card 1/1 ell

L 23386-65 EWT(m)/EMP(w)/EWA(d)/EMP(t)/EMP(b) 70-1 E5 N(3) ID
ACCESSION NR: AR4040338

S/0124/64/000/004/70'1/0073

SOURCE: Ref. zh. Mekhanika, Abs. 21549

AUTHOR: Zhumaliyev, B.

TITLE: A study of fine structure and microhardness in a plastically deformed single crystal of aluminum

CITED SOURCE: Tr. Kazakhsk. politekhn. in-ta, sh. 23, 1963, 242+241

TOPIC TAGS: aluminum single crystal, fine structure, microhardness measurement, plastic deformation, interference spot intensity, Laue pattern analysis, strain hardening, crystallite block fragmentation

TRANSLATION: The study utilized single crystals of aluminum (99.99%), obtained by recrystallization. An x-ray analysis demonstrated that the intensity of interference spots in a Cu-radiation reflection varied significantly when samples are subjected to plastic deformation at the rate of 1.10%. The variation in interference spots was related principally to fragmentation of crystallite blocks. Interference spots break down into individual parts as the level of deformation increases. A

Card 1/2

L 23386-65
ACCESSION NR: AR040338

decrease in the intensity of interference spots is attributed to distortions of the third order forming in the crystal lattice. The number of interference spots on back reflection Laue patterns obtained from a single crystal decreased with deformation. The microhardness of aluminum was measured and it was demonstrated that structural refinement of single crystal subjected to plastic deformation is related to strain hardening. L. I. Mirkin

SUB CODE: MM, SS

ENCL: 00

Card 2/2

L 40082-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k) IJP(e) FW/EM/GD
ACC NR: AT6019251 SOURCE CODE: UR/0000/65/000/000/0261/0265

AUTHOR: Zhumaliyev, B.

35
A+1

ORG: none

TITLE: Estimates for panels which are sections of spherical and circular cylindrical shells

SOURCE: Kazakhstanskaya mezhvuzovskaya nauchnaya konferentsiya po matematike i mekhanike. 1st, Alma-Ata, 1963. Trudy, Izd-vo Nauka KazSSR, 1965, 261-265

TOPIC TAGS: shell theory, thin shell structure, asymptotic solution, partial differential equation

ABSTRACT: Rectangular regions of thin shells of spherical and circular cylindrical form are studied under conditions of external loading by hydrostatic pressure and the weight of the shell itself. The theory of thin elastic shells in complex stress conditions lies at the basis of the computation and asymptotic integration together with Lagrange's method of the variation of arbitrary constants is used to obtain the solution. Orig. art. has: 24 formulas.

SUB CODE: 12/13/

SUBM DATE: 18Nov65/ ORIG REF: 003

Card 1/1 11b

ZHUMANBAYEV, K.A.

Intracutaneous vaccine therapy in the compound treatment of
chronic brucellosis. Trudy Inst.kraev.pat.AN Kazakh SSR 12:208-
213 '62.
(MIRA 15:11)

1. Iz kafedry infektsionnykh bolezney (zav.kafedry deystvitel'nyy
chlen AMN SSSR prof. G.P.Rudnev), TSentral'nogo instituta dlya
usovershenstvovaniya vrachey na baze infektsionnogo otdeleniya
bol'nitsy imeni Botkina, Moskva.
(BRUCELLOSIS) (VACCINATION)

ZHUMARTBAEV, M.T.

Problem of the collision of two high-energy bodies, and the
effect of interaction between heavy particles and a vector
meson field on the energy spectrum of secondary particles.
Izv. AN Kazakh. SSR. Ser. fiz.-mat. nauk no. 2:76-81 '63.
(MIRA 1716)

L 60344-65 - EMT(1)/EMT(m)/EMT(n)-2/EMT(d) - P0-1/00

ACCIDENTAL NO.: APM016550

REF ID: A6114944

AUTHOR: Zhuravtsev, N. T.

318

TITLE: Some problems of relativistic hydrodynamics of relaxing media

315

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 6, 1969,
1646-1655

317

TOPIC TAGS: relativistic hydrodynamics, relaxing medium, relaxation hydrodynamics,
shock wave, relativistic shock wave, pair production, multiple particle interaction

ABSTRACT: A closed system of equations is obtained for calculating relativistic
hydrodynamics in the case of an approximation of the results and agrees with other state equations

Card 1/2

L 60344-65

ACCESSION NR: AP5C16559

3

for relaxation. The equations of two-component relativistic thermodynamics are generalized to include multicomponent systems and are applied to multiple particle

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ASSOCIATION Institute of Nuclear Physics Nuclear Physics, Academy of Sciences, Kazakh SSR)		REF ID: A6
SUBMITTED: 81 Dec 9	PAGE: 00	TOP SECRET 140 110
NR REF SER: 006	OPTION: 00	
Card 2/2 <i>[Handwritten]</i>		

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065010019-7"

ZHUMARTBAYEV, M.T.

Some aspects of the relativistic hydrodynamics of relaxing media.
Zhur. eksp. i teor. fiz. 48 no.6:1646-1655 Ja '65.

(MIRA 18:7)

1. Institut Yadernoy fiziki AN Kazakhskoy SSR.

ZHUMARTBALEV, M.T.

Sound absorption and width of shock waves in relativistic hydrodynamics. Zhur.ekspl teor.fiz. 37 no.4:1000-1004 O '59.
(MIRA 13:5)

1. Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR.
(Shock waves) (Sound waves)

24.4600

24714
 S/056/61/040/005/014/019
 B109/E212

AUTHOR: Zhumartbayev, M. T.

TITLE: Stability of tangential magnetic discontinuities in relativistic hydrodynamics

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 5, 1961, 1434-1439

TEXT: It is shown that the magnetic discontinuity as such is not affected by small disturbances. The stability of magnetic discontinuities is studied, and their zone of instability is determined for the ultra-relativistic case. The following laws of conservation hold for a system of coordinates connected with an undisturbed discontinuity in the normal to the discontinuity surface:

$$\{Wu_i^2 + p + (H^2 - 2H_i^2 + E^2 - 2E_i^2)/8\pi\} = 0, \quad (2.1)$$

$$(Wu_i u_{i\tau} - (H_i H_{\tau} + E_i E_{\tau})/4\pi) = 0, \quad (2.2)$$

$$(Wu_i u_{\tau} + i((EH)_\tau)/4\pi) = 0, \quad (2.3)$$

$$\{n u_{\tau}\} = 0, \quad (2.4)$$

Card 1 / 7

24714
S/056/61/040/005/014/019
B109/B212

Stability of tangential magnetic ...

$$\langle H_I \rangle = 0, \quad (2.5)$$

$$\langle E_T \rangle = 0 \quad (2.6)$$

where \vec{f} denotes the unit vector in the normal to the discontinuity surface, $\vec{\tau}$ the direction of the tangent, W the specific heat function. For infinite conductivity and due to the Lorentz transformation, the following boundary conditions are obtained for a tangential discontinuity ($v_x = 0, H_x = 0$): $\delta p + \frac{1}{4\pi} [(Hh) + \frac{1}{c^2} [vH]_x ([H\delta v]_x - [vh]_x)] = 0, \quad (2.8)$

$$\left\{ \frac{w}{\gamma} + \frac{H^2}{4\pi n} \gamma \right\} \frac{n(v_f + \delta v_f)}{\gamma} = \frac{1}{4\pi} \langle [vH] \rangle h_f, \quad (2.9)$$

$$\frac{1}{4\pi} \left\{ H_y + \frac{v_x}{c^2} [vH]_x \right\} h_f = \left\{ \frac{wv_y}{c^2\gamma} + \frac{[vH]_x}{4\pi n c^2} \gamma \right\} \frac{n(v_f + \delta v_f)}{\gamma}, \quad (2.10)$$

$$\frac{1}{4\pi} \left\{ H_z - \frac{v_y}{c^2} [vH]_x \right\} h_f = \left\{ \frac{wv_z}{c^2\gamma} - \frac{[vH]_x}{4\pi n c^2} \gamma \right\} \frac{n(v_f + \delta v_f)}{\gamma}, \quad (2.11)$$

$$\langle v \rangle h_f = \left\{ \frac{1}{n} H_y \gamma \right\} \frac{n(v_f + \delta v_f)}{\gamma}, \quad (2.12)$$

$$\langle v_z \rangle h_f = \left\{ \frac{1}{n} H_z \gamma \right\} \frac{n(v_f + \delta v_f)}{\gamma}, \quad (2.13)$$

Card 2/7

24714

S/056/61/040/005/014/019
B109/B212

Stability of tangential magnetic ...

where $h_f = h_x - H_y \partial \xi / \partial y - H_z \partial \xi / \partial z$, $\gamma = \sqrt{1 - v^2/c^2}$,
 $v_f + \delta v_f = \delta v_x - \partial \xi / \partial t - v_x \partial \xi / \partial y - v_y \partial \xi / \partial z$. | (2.7)

w denotes the heat function of a particle, $\delta \vec{v}$ the velocity disturbance, and $\vec{\xi}$ the disturbance of the magnetic field. The following expression results from the system (2.9)-(2.13) for the two unknowns h_f and $n(v_f + \delta v_f)/\gamma$:

$$h_f = h_x - H_y \partial \xi / \partial y - H_z \partial \xi / \partial z = 0, \\ v_f + \delta v_f = \delta v_x - \partial \xi / \partial t - v_x \partial \xi / \partial y - v_y \partial \xi / \partial z = 0. | (2.14)$$

The tangential magnetic discontinuity will be conserved as such for small disturbances. If the disturbance is of the type $\exp i(kr - \omega t)$, then the following equation for determining all possible values of ω (Ref. 2: S. I. Syrovatskiy. Tr.FIAN, 8, 14, 1956) will be obtained from the boundary conditions after various transformations: $\lambda_1/W_1 F_1 = \lambda_2/W_2 F_2$, (3.10), where $\lambda = k_0 \sqrt{1 - k^2/k_0^2}$ (3.5) and $F = [1 + \gamma^2 \frac{H^2}{4\pi W}] \frac{\omega_0^2}{\gamma^2} - \frac{(vH)(kH)}{2\pi W} \omega_0 - \frac{c^2(kH)^2}{4\pi W} \gamma^2$. (3.2).

In relativistic hydrodynamics, the analysis of the stability of tangential magnetic discontinuities will end up in investigating the roots of (3.10). If (3.10) has no roots with a positive imaginary part, at certain values

Card 3/7

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2471
S/056/61/040/005/014/019
B109/B212

Stability of tangential magnetic ...

of its parameters (for all values of k_0), then such a tangential magnetic discontinuity will be stable against the small disturbance in question. For $v \rightarrow 0$ (where v denotes the cosine of the angle between wave-number vector \vec{k}_0 and \vec{v}, \vec{H}) ω is determined by

$$\begin{aligned} W_1 \left\{ \frac{1}{\gamma_1^2} \left[1 + \gamma_1^2 \frac{H_1^2}{4\pi W_1} \right] \left(\frac{\omega}{k_0} - v_1 v \right)^2 + \frac{v_1 H_1^2 v}{2\pi W_1} \left(\frac{\omega}{k_0} - v_1 v \right) - \frac{c^2 H_1^2 v^2}{4\pi W_1} \gamma_1^2 \right\} = \\ = - W_2 \left\{ \frac{1}{\gamma_2^2} \left[1 + \gamma_2^2 \frac{H_2^2}{4\pi W_2} \right] \left(\frac{\omega}{k_0} - v_2 v \right)^2 + \frac{v_2 H_2^2 v}{2\pi W_2} \left(\frac{\omega}{k_0} - v_2 v \right) - \frac{c^2 H_2^2 v^2}{4\pi W_2} \gamma_2^2 \right\}. \quad (3.11) \end{aligned}$$

This equation will have real roots if

$$\left(\frac{H_1^2}{4\pi} + \frac{H_2^2}{4\pi} \right) + \frac{(H_1^2/4\pi + H_2^2/4\pi)^2}{W_1 + W_2} - \frac{W_1 W_2}{c^2 (W_1 + W_2)} \frac{(v_2 - v_1)^2}{\gamma_1^2 \gamma_2^2} > 0. \quad (3.12)$$

The roots of (3.10) are studied for any v for the case $W_1 = W_2 = W$, $c_{01} = c_{02} = c_0$, $H_1 = H_2 = H$. | (3.13)
raising (3.10) to the second power and using the notations

$$\Omega = \omega/c_0 k_0, \quad \alpha = H/\sqrt{4\pi W}, \quad \beta_0 = V_0/c_0, \quad \beta = v_0/c_0, \quad (3.15)$$

Card 4/7

24714

S/056/61/040/005/014/019
B109/B212

Stability of tangential magnetic ...

$$\left| \frac{c^2}{v_0} \left(1 - \sqrt{1 - \frac{v_0^2}{c^2}} \right) = v_0 \right| \quad (3.14)$$

$v_0 = (v_2 - v_1)/(1 - v_1 v_2/c^2)$, the algebraic equation

$$b_1 \Omega^8 + b_2 \Omega^6 + b_3 \Omega^4 + b_4 \Omega^2 + b_5 = 0, \quad (3.16)$$

is obtained; its coefficients are functions of the parameters α , β_0 , $y = c_0/c$, and ν . b_5 can vanish at certain values of the parameters and (3.16) will have the double root $\Omega^2 = 0$. If b_5 changes its sign when passing through $b_5=0$, the sign of Ω^2 will also change, and the pair of real roots becomes a pair of complex conjugate roots. At a given y in the (α, β_0) plane, $b_5 = 0$ determines a curve representing the boundaries of the instability zone: $|\alpha^2 = y^2 \beta_0^2/(1 - y^2 \beta_0^2)|$, (3.17)

$$\begin{aligned} & (\alpha/y)^4 \{2(1 - \beta_0^2)^2 + y^2 \beta_0^2 (1 - y^2)(2 - y^2 \beta_0^2 - \beta_0^2)\} - \\ & - (\alpha/y)^2 \beta_0^2 \{4(1 - \beta_0^2)^2 + y^2 \beta_0^2 (1 - y^2)(1 - 2y^2 \beta_0^2 + \beta_0^2)/(1 - y^2 \beta_0^2)\} + \\ & + 2\beta_0^4 - y^2 \beta_0^2 (1 - y^2)/(1 - y^2 \beta_0^2) = 0. \end{aligned} \quad (3.18)$$

Card 5/7

24714
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B109/B212

Stability of tangential magnetic ...

For the ultrarelativistic case $y = 1/\sqrt{3}$ the instability zone of the tangential magnetic discontinuity is limited from the left by the curve

$$\alpha = \beta_0 [(3 - 2\beta_0^2)/(9 - 12\beta_0^2 + 5\beta_0^4)]^{1/4} \quad (3.25)$$

at $\beta_0 \leq 1$ and by (3.17) at $\beta_0 \geq 1$ (Fig. 1; the instability zone is cross-hatched). Discontinuities with parameters outside this zone are stable against small disturbances. The author thanks K. P. Sanyukovich, F. I. Frankl', and Zh. S. Takibayev for advice and interest. There are 3 Soviet-bloc references.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR
(Institute of Nuclear Physics of the Academy of Sciences
Kazakhskaya SSR)

SUBMITTED: December 15, 1960

Card 6/7

ZHUMARTBAYEV, M.T. (Alma-Ata)

"Initial impulse propagation in relativistic magnetohydrodynamics
for a medium with finite conductivity".

report presented at the 2nd All-Union Congress on Theoretical
and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

ZHUMARTBAYEV, M.T.

Stability of magnetic tangential discontinuities in relativistic hydrodynamics. Zhur. eksp. i teor. fiz. 40 no. 5:1494-1439 My '61. (MIRA 14:7)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.
(Magnetohydrodynamics)

ZHUMARTBAYEV, M. T.

Cand Phys-Math Sci - (diss) "Properties of explosion surfaces in relativistic hydrodynamics." Moscow, 1961. 7 pp; (Moscow State Univ imeni M. V. Lomonosov, Inst of Nuclear Physics Academy of Sciences Kazakh SSR); 200 copies; price not given; (KL, 10-61 sup, 204)

L 0189-66 EWT(1)/EWP(m)/ETC/EPP(n)-2/ENG(m)/T-2/EWA(m)-2 IJP(c) AT

ACC NR: APS021912

SOURCE CODE: UR/0207/65/000/004/0143/0145

44,5

56

AUTHOR: Zhumaertbayev, N. T. (Alma-Ata)

ORG: none

TITLE: Propagation of an initial pulse in relativistic magnetohydrodynamics with finite conductivity

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 143-145

1,44,55 2, 44, 55

TOPIC TAGS: MHD, relativistic plasma, magnetoacoustic effect

ABSTRACT: The problem of propagation of a small amplitude pulse in a relativistic magnetohydrodynamic medium is considered. In contrast to the nonrelativistic problem where the displacement currents are neglected, the Alfvén and magnetocoustic wave cannot always be separated. The problem is treated using a closed set of relativistic magnetohydrodynamic equations. The equations are linearized and all field quantities are given as the superposition of moving waves. The dispersion relation is obtained which for infinite conductivity can be separated into Alfvén and magnetoacoustic waves. The small conductivity case is also considered and a more complex dispersion relationship is obtained. "In conclusion the author thanks K. P. Stanyukovich for his interest." Orig. art. has: 16 formulas.

SUB CODE: 20/

SUB DATE: 24Mar64/

ORIG REF: 004/

OTH REF: 000

BUK

Card 1/1

ZHUMARTBAYEV, U.T.; SOKOL'SKIY, D.V.; KURTSEITOVA, G.I.

Nickel-chromium catalysts on carbon for furfurole hydrogenation.
Izv. AN Kazakh.SSR.Ser.khim.nauk 15 no.3:71-77 Jl.-tg '65.
(MIRA 18:11)

1. Submitted June 11, 1964.

ZHUMATIY F. 1.

COUNTRY : USSR
CATEGORY : Cultivated Plants. General Problems. M

ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10859

AUTHOR : Lavrenko, A. T., Sova, M. S., Oleynik, K. I., Zhumatiy, *)
INST. : Odessa Agricultural Institute.
TITLE : Reports on Production Experiments (in a Number of Kolkhozes of Odessa, Zaporozhskaya, Nikolayevskaya, Kirovogradskaya, Zakarpatskaya and Cherkasskaya Oblasts).
ORIG. PUB. : Tr. Odessk. s.-kh. in-ta, 1958, 13, 137-145.

ABSTRACT : No abstract.

*) P. I., Kryuk, L. A., Berdnik, I. V., Osak, V. P.,
Prokopenko, M. I., Dmitrenko, Ye. A.

CARD: 1/1

ZHUMATOV, Aubakir Zhumatovich (1909-1959)

[Selected works on the grain crops of Kazakhstan] Izbrannye
trudy po zernovym kul'turam Kazakhstana. Alma-Ata, Kazakhskoe
gos. izd-vo, 1961. 217 p. (MIRA 15:12)
(Kazakhstan—Wheat)

ZHUMATOV, Kh. Zh.

Zhumatov, Kh. Zh. "A new method of studying the role of leucocytes in immunity against viruses", Voprosy med. virusologii, Issue 2, 1949, p. 315-26, - Bibliog: 21 items.

SO: U-3042, 11 March 53, (Letopis 'zhurnal 'nykh Statey, No. 10, 1949).

ZHUMATOV, Kh.

New developments in the theory of antivirus immunity in the group
of nonfiltrable viruses. Izv. AN Kazakh.SSR. Ser.kraev.pat. no.6:
51-70 '50. (MIRA 9:8)

(VIRUSES) (IMMUNITY)

ZHUMATOV, Kh.

The importance of phagocytosis in the destruction of the virus
vaccine and virus of infectious ectromelia. Izv. AN Kazakh.SSR.
Ser.kraev.pat. no.6:71-79 '50. (MLRA 9:8)
(PHAGOCYTOSIS) (VIRUSES)

ZHUMATOV, Kh. Zh.

Study of pathogenic viruses in a tissue culture from the adult organism. Report no.1: In vitro cultivation of the infectious ectromelia virus in tissues from white mice. Izv. AN Kazakh.SSR. Ser.Kraev.pat. no.6:80-90 '50. (MLEA 9:8)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(VIRUSES)

ZHUMATOV, Kh. Zh.

"Pressing Problems of the Fight Against Dysentery," Zdrav. Kazakh., No. 3,
pp. 6-10, 1952

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"On the problem of filtrable forms of microorganisms and their interrelations with the virus," Mikrobiobiya, 22, No 5(pp 580-585, 1953.

SO: Trans.-848, by L. Lulich.

ZHUMATOV, Khamz Zhumatovich.

Kazakh Inst of Epidemiology, Microbiology and Hygiene. Academic degree of Doctor of Medical Sciences, based on his defense, 28 October 1954, in the Council of the Inst of Experimental Medicine, Acad Med Sci USSR, of his dissertation entitled: "Experimental Materials on the Mechanism of Anti-Virus Immunity (modelled on small-pox vaccine, infectious ektromelia, and grip)."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 10, 30 Apr 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

ZHUMATOV, Kh. Zh.

ZHUMATOV, Kh. Zh.; DEMIDOVA, S.I.; BITAYAN, V.V.; POPLAVSKAYA, Ye.A.;
GOLVBERG, R.S.

Materials on the variability of the bacillary dysentery bacteria
in the human organism. Zhur. mikrobiol. epid. i immun. no.10:97
O '54. (MLRA 8:1)

1. Iz Kazakhskogo instituta epidemiologii, mikrobiologii i
gigiyeny.
(SHIGELLA DYSENTERIAE)

ZHUMATOV, Kh. Zh.; KISELEV, A.P.

Increasing the heat resistance of smallpox vaccine virus. Vest
AH Kazakh. SSR 11 no.5:65-67 My '55. (MIRA 8:3)
(Smallpox virus)

ZHUMATOV, Kh.Zh.

Problems of infection and immunity in the light of Academician
I.P. Pavlov's physiological teaching. Izv.AN Kazakh.SSR. Ser.fiziol.
i Med. No.7;3-13 '56. (MIR 9:10)
(INFECTION) (IMMUNITY) (NERVOUS SYSTEM)

ZHUMATOV, Kh.Zh.

Studying pathogenic viruses on cultures made from tissues of an adult organism. Report no.2: Culturing the virus of pneumotropic ectromelia in pulmonary explants from immunized mice. Izv. AN Kazakh.SSR. Ser.fiziol. i med. no.7:21-30 '56. (MLRA 9:10)
(VIRUSES) (IMMUNITY)

MIKHAYLOV, G.G.; ZHUMATOV, Kh.Zh.

Effect of nonspecific stimuli on the course of an experimental influenza infection. Izv. AN Kazakh.SSR. Ser.fiziol. i med. no.7: 31-38 '56.
(INFLUENZA) (MIRA 9:10)

ZHUMATOV, Kh.Zh.

Pathogenesis and immunity in rabies. Trudy Inst. Mikrobiol. i virus.
AN Kazakh SSR 2:207-216 '58
(MIRA 11:10)
(RABIES)

ZHUMATOV, Kh.Zh.; DARDIK, F.G.

Outbreak of Botkin's disease caused by contaminated water [with summary in English]. Vop.virus. 3 no.1:39-43 Ja-F '58. (MIRA 11:4)

1. Kazakhskiy institut epidemiologii, mikrobiologii i gigiyeny i Respublikanskaya sanitarno-epidemiologicheskaya stantsiya.
(HEPATITIS, INFECTIOUS,
epidemic caused by contaminated water in irrigation canal (Rus))

EYCEPTA MEDICA Sec 17 Vol 5/10 Public Health Oct 59

2857. MATERIAL FOR STUDY OF THE OUTBREAK OF A PECULIAR TYPE OF ENCEPHALITIS IN LENINOGORSK (PRELIMINARY COMMUNICATION)
(Russian text) - Zhumatov Kh. Zh., Kostina K. A., Farizov
M. Kh., Berezin F. B., Anikin Yu. A., Pryatkin S. K. and
Reshetnikova E. K. Kazakh. Inst. of Epidemiol., Microbiol. and Hyg.,
Dept. of Nerv. Dis., Kazakh. State Med. Inst., Vostoch-Kazakh District;
Psychoneurolog. Disp., Leninogorsk - ZDRAVOCHKR. KAZ. 1958, 18/8 (51-
58) Graphs 2 Tables 1

The outbreak began in 1958 among students of a mining school, and then spread through the urban population, mainly affecting the teenagers. General fatigue, headache, dizziness and drowsiness were the symptoms. Abortive forms were frequently observed. Since the outbreak occurred several months after Asian flu had been prevalent in the same area, a possible relationship between the 2 diseases should be explored.

Anigstein - Galveston, Tex. (L, 6, 8, 19)

ZHUMATOV, Kh.Zh.; DARDIK, F.G.

Epidemic hepatitis in pregnancy. Akush. i gin. 34 no.6:26-32 K-1 '58.

(MIRA 12:1)

1. Iz Kazakhskogo instituta epidemiologii, mikrobiologii i gigiyeny
(Nauchnyy rukovoditel' - chlen-korrespondent Akademii nauk Kazakhskoy
SSR, prof. Kh. Zh. Zhumatov) i Respublikanskoy sanitarno-epidemiologicheskoy
stantsii (glavnnyy vrach S.I. Rybalko), Alma-Ata.

(HEPATITIS, INFECTIOUS, in pregn.)

(PREGNANCY, compl.)

hepatitis, infect., progn. (Eng))

ZHUMATOV, Kh.Zh.

Results and objectives in studying virus infections in Kazakhstan.
Vop.virus. 4 no.5:631-633 S-0 '59. (MIRA 13:2)
(KAZAKHSTAN--VIRUS RESEARCH)

ZHUMATOV, Kh. Zh.; AKHMATULLINA, N.B.; AKBERDIN, S.U.

Further investigation of poliomyelitis in Kazakhstan. Izv. AN
Kazakh. SSR. Ser. med. i fiziol. no. 1:79-85 '60. (MIRA 13:10)
(KAZAKHSTAN—POLIOMYELITIS)

ARKHANGEL'SKIY, D.S.; ZHUMATOV, K.N.Zh.

Serological diagnosis of poliomyelitis by means of complement fixation. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no. 2:3-5 '60.

(COMPLEMENT FIXATION) (POLIOMYEITIS)

(MIRA 13:10)

ZHUMATOV, KH.ZH., CHURHYSHEV, I.N.

"Virological investigation of an outbreak of pseudoglaucous conjunctivitis
in children in Alma-Ata."

Report submitted for the 1st Intl. Congress on Respiratory Tract Diseases of
Virus and Rickettsial Origin. Prague, Czech, 23-27 May 1961.

ZHUMATOV, Kh.ZH., prof.; DMITRIYENKO, N.K.

[Characteristics of the natural foci of tick-borne encephalitis in Kazakhstan; report at a conference devoted to diseases of tropical countries, September 1961, Tashkent] Osobennosti prirodykh ochagov kleschchevogo entsefalita v Kazakhstane; doklad na konferentsii, posviashchennoi bolezniam v stranakh s zharkim klimatom, sentiabr' 1961 g., Tashkent. Moskva, Medgiz, 1961. 7 p.
(MIRA 17:3)

1. Chlen-korrespondent AMN SSSR (for Zhumatov).

*

ZHUMATOV, Kh.Zh.; AKHMATULLINA, N.B.

Analysis of the changes of humoral immunity in children after the
peroral immunization with live vaccine against poliomyelitis.
Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 5:148-156 '61,

(MIRA 15:4)
(Poliomyelitis---Preventive inoculation)

ZHUMATOV, Khamza Zhumatovich; DARDIK, Faina Grigor'yevna; GUSEVA, N.,
red.; ABDULGAFAROV, Ye., red.; ZLOBIN, M., tekhn. red.

[Infectious hepatitis (Botkin's disease); its epidemiology
and prevention] Infektsionnyi hepatit (bolezn' Botkina);
epidemiologiya i profilaktika. Alma-Ata, Kazgosizdat, 1962.
201 p. (MIRA 16:12)

(HEPATITIS, INFECTIOUS)

ZHUMATOV, KH.ZH.; AKHMATULLINA, N.B.

Results of virological and serological investigations of persons suspected to be sick with poliomyelitis and persons in contact with them in 1956-1960. Trudy Inst.mikrobiol.i virus. AN Kazkah.SSR 6:185-192 '62.

(POLIOMYELITIS)

S/031/62/000/005/001/002
B144/B138

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TEXT: This is a review article on development, latest results, and prospects of studies concerning: biosynthesis, molecular and submolecular structures, heredity, and mutability of viruses. The author studied the genetics of the influenza virus in cooperation with Ye. S. Isayeva in the laboratoriya Instituta mikrobiologii i virusologii AN KazSSR (Laboratory of the Institute of Microbiology and Virology AS KazSSR). RNA is extracted from a virus concentrate having a hemagglutination (HA) titer of 1:16,000 - 1:32,000 by treatment with: a) cold 80% solution of phenol; b) hot melted phenol at -50°C. RNA is detected by the orcin method or spectrometrically. The RNA preparation is introduced into the cavity of chick embryos and its infectivity checked by HA after incubation at 36°C for 2-3 days. The controls were infected with: 1) original virus diluted 1:1000 with or without preliminary treatment of RNA with ferment; 2) the

Card 1/2

Biosynthesis of viruses

S/031/62/000/005/001/002
B144/B138

RNA solution to be tested + ribonuclease. The results are inconclusive and depend apparently on the method of RNA extraction. This problem must still be solved. Even with administration of native influenza virus, the susceptibility seems to depend on growth and breed of the embryos, temperature, incubation, etc. There are 3 figures and 1 table. The most important English-language references are: Colter J. S., Ellem K. A. Structure of viruses. Annual Review of Microbiology. Vol. 15. p. 219 - 244. 1961; Fraenkel-Conrat H., Singer B., Williams R., Infectivity of viral nucleic acid. Biochim. et Biophys. Acta. 25. 1. p. 87 - 96. 1957; Wecker E. The extraction of infectious virus nucleic acid with hot phenol. Virovirus. Nature. 177. 702. 1956; Gierer A., Schramm R. Infectivity of ribonucleic acid from tobacco mosaic virus. Nature. 177. 702. 1956.

Card 2/2